

RECEIVED

**Tile Test Report**

12 OCT 17 AM 4:52

BUILDING CODE  
COMP. PLANCE DEPARTMENT  
PRODUCT CONTROL SECTION

October 17, 2012

**Manufacturer:** Imexinsa, Nicaragua.

Zion Tile Corporation.  
12002 S.W. 128<sup>th</sup> Court, Suite 103  
Miami, FL 33186

**Product:** NOA #: 07-0815.03  
Alhambra Handmade Clay Tile  
Made in Nicaragua

**Referenced Quarter**

- 1<sup>st</sup> Quarter (Oct-Dec)
- 2<sup>nd</sup> Quarter (Jan-Mar)
- 3<sup>rd</sup> Quarter (Apr-Jun)
- 4<sup>th</sup> Quarter (Jul-Sep)

Test Date(s):  
10/08/12 - 10/10/12  
Technician: HG/AA

Specimen #		1	2	3	4	5	Average	Specified
Length (in.)		18.00	18.00	17.80	18.00	17.16	17.79	+/- 5% of 17.5"
Width (in.)	Head End	6.3	6.61	7	6.56	7.13	6.72	+/- 5% of 7.5"
	Butt End	7.8	8	7.63	7.8	7.56	7.76	+/- 5% of 8.5"
Thickness (in.)		0.62	0.65	0.66	0.66	0.66	0.65	+/- 5% of .9"
Dry Wt. (lb.)		7.70	7.13	7.45	8.00	7.69	7.59	+/- 10% of 7.5 lbs
Transverse Strength (lbs.)		115.5	126.8	98.7	210	119	134	>400-Average of 5
Tested Dry - after 24 hr at 160°F								>350-Individual
Water Absorption (lb/ft)		13.57	7.72	14.39			11.89	<18-Average of 3
Permeability (pass or fail)		OK	OK	OK			Pass	water droplets

Test Results: The tiles submitted DO NOT meet the Florida Building Code (TAS-112-95) & A.S.T.M. C 67 physical tests for : dimensional, transverse breaking strength, water absorption and permeability.

To the best of my knowledge, belief and professional opinion, the above data represent the actual conditions as reported herein.  
Sincerely,

10-17-12  
Alberto Cardona  
P.E. Lic. # 17138

**FLORIDA**  **TEC**  
Providing Solutions to the Roofing Industry

Pictures



TILE SPECIMENS RECEIVED FROM CODE COMPLIANCE



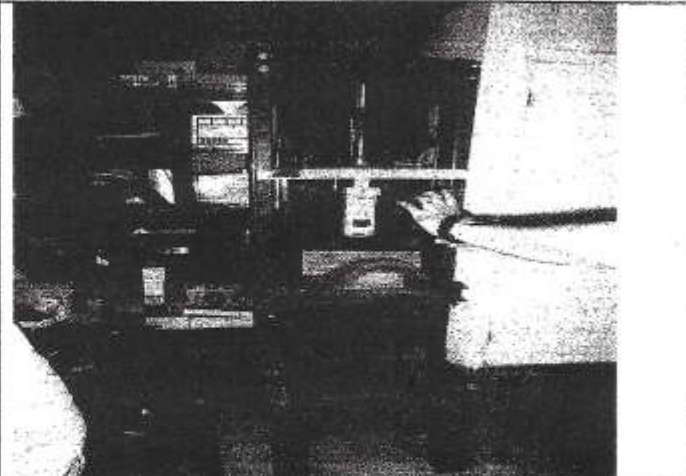
WATER TANK



TILES SUBMERGED IN WATER FOR 24 HRS



TILES OVEN-DRY FOR 24 HRS @ 160 °F



STRENGTH TEST



American Test Lab of South Florida  
6801 NW 17 Ave Ft Lauderdale, FL 33309  
office 954-972-6208 fax 954-972-6285  
www.atlsf.com email:info@atlsf.com

## TEST REPORT FOR ROOF TILE PHYSICAL PROPERTIES

Client: Artezanos, Inc.  
9455 S.W. 78<sup>th</sup> Street  
Miami, Florida 33173  
Att. Dan Arguelles

Report Date: 9/20/12  
ATLSF Report #: RT0915.01-12  
Page: 1 of 2

<b>Test Authorized by:</b>	Dan Arguelles
<b>Sampled by:</b>	Client
<b>Date of Receipt:</b>	Delivered: 9/13/12
<b>ATLSF Item #:</b>	111336
<b>Test Method(s):</b>	Standard Specification for Clay Roof Tiles, ASTM C1167-03
<b>Manufacturer:</b>	Zion Tile Corp..
<b>Series/Model:</b>	Terracotta, Clay, Handmade, Tapered, Barrel, Roof Tile
<b>Test Specimen Description:</b>	23 pieces, terracotta
<b>Imprint:</b>	Zion Tile Corp. Made in Nicaragua
<b>Notice of Acceptance #:</b>	07-0815.03
<b>Classification:</b>	Type III- High Profile, Grade 3
<b>Dimensions, (as provided in NOA):</b>	Length: 17.5", Width: 8.5", Thickness: 0.9", Weight: 7.5 lbf. Height: Not Provided
<b>MDCBCC Notification #:</b>	None
<b>ATLSF Certification:</b>	11-0128.01
<b>Comments:</b>	The test for efflorescence was not performed at the clients request.

Physical Property	Tile #1	Tile #2	Tile #3	Tile #4	Tile #5	Average	Requirements
Length (in.)	18.5	18.5	18.5	18.5	18.5	18.5	16.6 – 18.4 indiv. ≥ 17.5 average 5
Width (in.)	8.1	8.1	7.8	8.0	8.0	8.0	8.1 – 8.9 indiv. ≥ 8.5 average 5
Height (in.)	2.9	2.7	2.9	3.0	3.0	2.9	N/P
Thickness (in.)	.60	.62	.62	.60	.64	.62	.86– .95 indiv. ≥ .50 average 5
Dry Weight (lbf.)	7.0	6.7	6.9	7.0	6.8	6.9	6.8 – 8.3 indiv. ≤ 8.3 average 5
Absorption (%) 24 hr. soak	19.9	20.3	20.7	23.1	21.8	21.2	≤ 15 indiv. ≤ 13 average 5
Absorption (%) 5 hr. boil	25.9	25.8	26.6	28.6	27.3	26.8	N/A
Saturation Coefficient	.77	.79	.78	.81	.80	.79	≤ .86 indiv. ≤ .84 average 5
Permeability	Fail	Fail	Fail	N/R	N/R	Fail	Pass
Transverse Breaking Strength (lbf.) (dry)	120	147	158	143	115	137	≥ 350 indiv. ≥ 400 average 5
Reactive Particulates	None	None	None	None	None	None	Pass

N/A: Not Applicable, N/R: Test Not Required, N/P: Technical Data Sheets Not Provided


The physical properties test reported in report ATLSF #: RT0915.01-12, has been performed in full compliance with the requirements of Miami-Dade County, with no deviations.

The test reported in report ATLSF #: RT0915.01-12, indicates that the samples tested do not meet the minimum requirements provided in the test standard for classification identified.


American Test Lab of South Florida, its employees, and witnessing engineers do not own, operate, or are controlled by any manufacturer and have no financial interest in the manufacture, manufacture of any related parts, specification, or installation of this or a competing product.

End of Report.

Prepared by:

  
Tony Porcello, RRO  
Chief Executive Officer  
American Test Lab of South Florida

Reviewed by:

  
Henry Hattem, P.E.  
Reg. State of Florida # 14373  
American Test Lab of South Florida



American Test Lab of South Florida  
 6801 NW 17 Ave Ft Lauderdale, FL 33309  
 office 954-972-6208 fax 954-972-6285  
 www.atlsf.com email:info@atlsf.com

## TEST REPORT FOR ROOF TILE PHYSICAL PROPERTIES

Client: Artezanos, Inc.  
 9455 S.W. 78<sup>th</sup> Street  
 Miami, Florida 33173  
 Att. Dan Arguelles

Report Date: 9/30/13  
 ATLSF Report #: RT0926.01-13  
 Page: 1 of 2

Test Authorized by:	Dan Arguelles
Sampled by:	Client
Date of Delivery:	9/26/13
ATLSF Item #:	111560
Test Method(s):	Standard Specification for Clay Roof Tiles, ASTM C1167-03
Manufacturer:	Zion Tile Corporation
Model:	Alhambra, Handmade Clay Roof Tile, Tapered Barrel
Test Specimen Description:	13 pieces, terracotta
Nominal Dimensions, (in.): (l x w x h):	17.5 x 8.5 x N/P
Nominal Weight, (lbf):	7.5
Nominal Thickness, (in.):	0.9
Imprint:	Zion Tile Corp. Made in Nicaragua
Tile Florida Approval #:	6057
Classification:	Type I- High Profile
ATLSF MDC Certification #:	13-0228.09
ATLSF FBC Organization #:	TST3782
Comments:	<ol style="list-style-type: none"> <li>1. This report is submitted as an interim report. The final report will be reissued upon completion of the efflorescence test.</li> <li>2. The above product specifications were obtained from FBC Approval #16057.</li> </ol>

Physical Property	Tile #1	Tile #2	Tile #3	Tile #4	Tile #5	Average	Requirements
Length (in.)	18.0	18.0	18.1	18.2	18.0	18.1	16.6 – 18.4 indiv. ≥ 17.5 average 5
Width (in.)	7.9	8.0	7.9	7.8	7.8	7.9	8.1 – 8.9 indiv. ≥ 8.5 average 5
Thickness (in.)	.68	.68	.69	.65	.69	.68	.86 – .95 indiv. ≥ .90 average 5
Height (in.)	3.2	3.3	3.2	3.5	3.2	3.3	N/P
Dry Weight (lbf.)	6.8	7.2	7.1	6.6	7.1	7.0	6.8 – 8.3 indiv. ≤ 8.3 average 5
Absorption (%) 24 hr. soak	15.1	15.9	15.8	15.7	15.6	15.6	≤ 15 indiv. ≤ 13 average 5
Transverse Breaking Strength (lbf.) (dry)	358	151	342	216	330	279	≥ 350 indiv. ≥ 400 average 5
Permeability	Fail	Fail	Fail	N/A	N/A	Fail	Pass
Efflorescence	N/C	N/C	N/C	N/C	N/C	N/C	Not Effloresced
Reactive Particulates	None	None	None	None	None	None	None

N/A: Test Not Required, N/P: Not Provided, N/C: Not Completed

The physical properties test reported in report ATLSF #: RT0926.01-13, has been performed in full compliance with the requirements of Miami-Dade County and FBC TAS 110-2000/ASTM C1167-03 with no deviations. The tests reported in report ATLSF #: RT0926.01-13, indicates that:

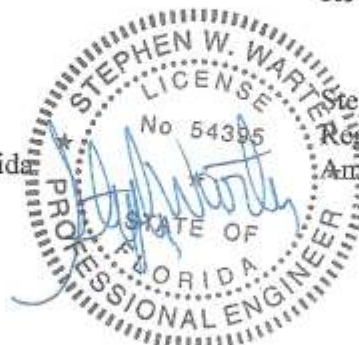
1. The individual and average lengths comply with the requirements of the test method.
2. The individual and the average width are less than provided by the test method.
3. The individual and the average thicknesses are less than provided by the test method.
4. The published height was not provided in FBC Approval #16057.
5. One (1) individual and average dry weight is less than provided by the test method.
6. The individual and average 24 hour cold water absorption exceeds the requirements for a Grade 1, 2, or 3 tile classification, therefore; the 5 hr. boil test was not performed.
7. Four (4) individual and the average transverse breaking strength were less than provided by the test method.
8. There is no efflorescence after four (4) days, however; the test will not be complete until the seventh (7) day test.
9. While the tiles are rustic by design, the tiles were considered to not evidence reactive particulates.

Prepared by:

*Tony Porcello*  
 Tony Porcello, RRO  
 Chief Executive Officer  
 American Test Lab of South Florida

Reviewed by:

*9/30/13*  
 Stephen W. Warter, P.E.  
 Reg. State of Florida # 54395  
 American Test Lab of South Florida





# Alcazar Rustic Tiles LLC.



# INVOICE

DATE	Pro- Invoice #
9/26/2013	1065

10545 SW 184th Terrace Miami, FL 33157  
 Telf: (305)252-9077 Fax :(305)969-8755

NAME / ADDRESS
ESR FLORIDA COSTRUCTION

Ship To / Job Name

P.O. NO.	TERMS	DUE DATE
		9/26/2013

ITEM CODE	DESCRIPTION	PIECES	SQUARE	COST	TOTAL
AL001BAR	ALHAMBRA HANDMADE BARREL TERRACOTA	25		3.50	87.50

1. No claims after the tile has been installed.
2. There will be 20% re-stocking charge on cancelled and returned orders.
3. There will be a \$25.00 storage fee charged per day after 14 days from pick-up confirmation date.
4. This quotation will be disregarded if not signed and confirmed.

<b>SUB-TOTAL</b>	\$87.50
<b>SALE TAX (7.0%)</b>	\$0.00
<b>TOTAL</b>	\$87.50

SIGNATURE \_\_\_\_\_